

MQTT Topic and Value

HMI

Name	Value Example	Description
core_system	Sub-JSON Format	Core Service Information
socket_service	Sub-JSON Format	Socket Service Information
analyzer_service	Sub-JSON Format	Analyzer Service Information
mqtt_service	Sub-JSON Format	MQTT Service Information

Core System Format

Name	Value Example	Description
boot_time	1699261470263	Start Service Time
updated_time	1699262020071	Service Updated Time
device_ip	192.168.249.50	HMI Network Address
device_name	HMI001	HMI Name
device_desc	HMI001	HMI Description
time_zone	(GMT+8) Asia/Taipei	Current Time-zone
network_interfaces	Sub-JSON Format	Network Interfaces

Socket Service Service Format

Name	Value Example	Description
boot_time	1699261470263	Start Service Time
updated_time	1699262020071	Service Updated Time

Aanalyzer Service Format

Name	Value Example	Description
boot_time	1699261470263	Start Service Time
updated_time	1699262020071	Service Updated Time

MQTT Service Format

Name	Value Example	Description
boot_time	1699261470263	Start Service Time
updated_time	1699262020071	Service Updated Time

Status

Topic

Topic Format

```
Walsin/HMI/[DEVICE]/Status
```

Topic Example

```
Walsin/HMI/192.168.249.50/Status
```

Value

Publish Value

```
{
  "mqtt_service": {
    "boot_time": 1699261470263,
    "updated_time": 1699262020071
  },
  "analyzer_service": {
    "boot_time": 1699261471484,
    "updated_time": 1699262019980
  },
  "socket_service": {
    "boot_time": 1699261471485,
    "updated_time": 1699262019980
  },
  "core_system": {
    "boot_time": 1699261472914,
    "updated_time": 1699261472914,
    "network_interfaces": {
      "乙太網路": [
        {
          "address": "192.168.236.28",
          "netmask": "255.255.255.0",
          "family": "IPv4",
```

```

        "mac": "04:92:26:58:dc:63",
        "internal": false,
        "cidr": "192.168.236.28/24"
    }
],
"Loopback Pseudo-Interface 1": [
    {
        "address": "::1",
        "netmask": "ffff:ffff:ffff:ffff:ffff:ffff:ffff:ffff",
        "family": "IPv6",
        "mac": "00:00:00:00:00:00",
        "internal": true,
        "cidr": "::1/128",
        "scopeid": 0
    },
    {
        "address": "127.0.0.1",
        "netmask": "255.0.0.0",
        "family": "IPv4",
        "mac": "00:00:00:00:00:00",
        "internal": true,
        "cidr": "127.0.0.1/8"
    }
]
},
"time_zone": "(GMT+8) Asia/Taipei",
"device_ip": "192.168.249.50",
"device_name": "HMI001",
"device_desc": "HMI001"
}
}

```

Reader

Name	Value Example	Description
time_zone	(GMT+8) Asia/Taipei	Current Time-zone
device_ip	192.168.249.52	Reader Network Address
device_mac	4e:00:24:52:9b:06	MAC Address
temperature_pa	62	PA Temperature
temperature_rf	62	RF Temperature
temperature_sys	62	System Temperature
status	1	Antenna Status (1: Normal, 2: Abnormal)

Name	Value Example	Description
timestamp	1699261804000	Last Detected Time
updated	1699261816251	Updated Time (Update via MQTT service)

Status

Topic

Topic Format

```
Walsin/Reader/[DEVICE]/Status
```

Topic Example

```
Walsin/Reader/192.168.249.52/Status
```

Value

Publish Value

```
{
  "device_ip": "192.168.249.52",
  "device_mac": "4e:00:24:52:9b:06",
  "temperature_pa": "62",
  "temperature_rf": "74",
  "temperature_sys": "74",
  "status": 1,
  "timestamp": 1699261804000,
  "updated": 1699261816251
}
```

Alarm

Topic

Topic Format

```
Walsin/Reader/[DEVICE]/Alarm
```

Topic Example

Walsin/Reader/192.168.249.52/Alarm

Value

Publish Value

```
{
  "device_ip": "192.168.249.52",
  "device_mac": "4e:00:24:52:9b:06",
  "temperature_pa": "62",
  "temperature_rf": "74",
  "temperature_sys": "74",
  "status": 2,
  "timestamp": 1699261804000,
  "updated": 1699261816251
}
```

Antenna

Name	Value Example	Description
time_zone	(GMT+8) Asia/Taipei	Current Time-zone
device_ip	192.168.249.52	Reader Network Address
device_mac	4e:00:24:52:9b:06	MAC Address
antenna	1	Antenna Port (1~4)
status	2	Antenna Status (1: Normal, 2: Abnormal)
timestamp	1699261804000	Last Detected Time
updated	1699261816251	Updated Time (Update via MQTT service)

Status

Topic

Topic Format

Walsin/Reader/[DEVICE]/[ANTENNA]/Status

Topic Example

```
Walsin/Reader/192.168.249.50/1/Status
```

Value

Publish Value

```
{
  "device_ip": "192.168.249.52",
  "device_mac": "4e:00:24:52:9b:06",
  "antenna": 1,
  "status": 1,
  "timestamp": 1699261804000,
  "updated": 1699261816251
}
```

Alarm

Topic

Topic Format

```
Walsin/Reader/[DEVICE]/[ANTENNA]/Alarm
```

Topic Example

```
Walsin/Reader/192.168.249.50/1/Alarm
```

Value

Publish Value

```
{
  "device_ip": "192.168.249.52",
  "device_mac": "4e:00:24:52:9b:06",
  "antenna": 1,
  "status": 2,
  "timestamp": 1699261804000,
  "updated": 1699261816251
}
```